

### 2.3.2 Meridian™ Audio features

- Digital Signal Process (DSP) software – All elements of the system are optimized
- Dynamic Volume Control – Uses a front-mounted microphone to detect variations in cabin noise and compensates for changes in ambient sound levels to provide consistent sound quality.
- Meridian™ Cabin Correction
  - Employs advanced DSP to complement the acoustics of the vehicle, improving clarity and authenticity of sound
  - Meridian™ Audio's room correction algorithms have been incorporated to overcome problem of acoustic resonances within the cabin.
  - Digital filtering technology is used to 'smooth' these resonances ensuring that the crucial pitch and timing of transient details is accurately reproduced.
- Meridian™ Digital Dither Shaping – Digital signal conversions and processes are executed accurately and smoothly throughout the system, maintaining maximum detail ensuring highest quality from all sources.
- Meridian™ Trifield System – Delivers a perfect stereo sound to all occupants in the vehicle. It enhances the performance of stereo material by using three front channels to increase localization accuracy and rendering a more stable, natural soundstage.

### 2.3.3 Audio System Power Output

Traditionally, the performance of automotive audio systems has been measured in terms of power output in Watts. Meridian™ adopts a different view, designing the speakers to work harmoniously with the amplifier as an integrated, active audio system. This approach provides a superior system without requiring the high power required by many audio systems.

Total Harmonic Distortion (THD) of an audio signal is a measure of the harmonic distortion. Harmonic Distortion occurs when a signal is “clipped” or altered due to a part of the sound system not being capable of reproducing the signal. If the system runs out of headroom the signal distorts, producing undesirable sound due to limitations in the amplifier design. A lower level of THD will allow the components in a loudspeaker & amplifier to produce a more accurate audio reproduction by reducing the distortion added by electronics and audio media. A THD rating less than 1% is considered to be high-fidelity and inaudible to the human ear. The audio systems used before 13MY have a THD of 10% where the new Meridian™ audio systems have a THD of only 0.2%. This reduction in harmonic distortion means a lower power output is required to achieve the high levels of audio clarity within the vehicle.

### 2.3.4 Two levels of Meridian™ audio system are available on the XJ

Meridian™ Premium Audio System	Meridian™ Premium 7.1 Surround Audio System
<ul style="list-style-type: none"> <li>• 380W premium Sound System</li> <li>• 12 Amplifier Channels</li> <li>• 12 Speakers + 2 subwoofers</li> <li>• Separate DSP</li> <li>• Audyssey MultEQ sound equalization</li> <li>• Meridian™ Cabin noise correction</li> <li>• Dynamic volume control</li> </ul> <p>Standard on: XJ and XJL Portfolio</p>	<ul style="list-style-type: none"> <li>• 825W premium Sound System</li> <li>• 15 amplifier Channels</li> <li>• 18 Speakers + 2 subwoofers</li> <li>• Separate DSP</li> <li>• Audyssey MultEQ sound equalization</li> <li>• Meridian™ Cabin noise correction</li> <li>• Dynamic volume control</li> <li>• Meridian™ Trifield System</li> </ul> <p>Standard on: XJ/XJL Supercharged XJ/XJL Supersport XJL Ultimate</p> <p>Optional on: XJ &amp; XJL Portfolio</p>

*Changes in standard equipment, options or prices can occur. Jaguar reserves the right to change product specifications at any time without incurring obligations.*